CRASH COURSE

VERSION

2.4

CORE PERL PROGRAMMING

ELYSIUM ACADEMY

CORE PERL PROGRAMMING

SR. CODE
EAPL/CRASH/CRTC12

COURSE CODE
EACPR

SUB CATEGORY
SOFTWARE DEVELOPMENT

TOTAL DURATION
45
HOURS

THEORY TAKEN
12

PRACTICAL TAKEN
33

COURSE DESCRIPTION

The Perl Programming course offers comprehensive training in the Perl programming language, known for its versatility and powerful text-processing capabilities. Participants will learn the fundamentals of Perl syntax, data types, control structures, and functions.

COURSE GOALS

The goal of the Perl Programming course is to equip participants with the knowledge and skills necessary to become proficient Perl developers. By the end of the course, participants will be able to design and develop Perl scripts and applications for various purposes, including system administration, data analysis, and web development.

FUTURE SCOPE

Proficiency in Perl programming opens doors to a variety of career opportunities, including roles such as Perl developer, software engineer, system administrator, and data analyst. While Perl may not be as widely used as other programming languages, there is still demand for skilled Perl developers, particularly in industries such as finance, bioinformatics, and system administration.

01
CHAPTER

INTRODUCTION

**01.Introduction to Perl :
Perl Installation and
Environment Setup in Windows,
Linux, and MacOS**

02 HRS

4.5 HRS

   a. Basic Syntax of a Perl Program

   b. Hello World Program in Perl

02. Fundamentals

   a. Data Types

   b. Boolean Values

   c. Operators

   d. Variables

   e. Modules

   f. Packages in Perl

02
CHAPTER

CONTROL FLOW

01. Control Flow

02 HRS

5.5 HRS

   a. Decision Making (if, if-else, Nested–if,
if-elsif ladder, unless, unless-else,
unless-elsif)

   b. Loops (for, foreach, while, do...while,
until, Nested loops)

   c. given-when Statement

   d. goto statement

03 CHAPTER

ARRAYS & LISTS

01. Arrays & Lists

- a. Arrays
- b. Array Slices
- c. Arrays (push, pop, shift, unshift)
- d. Perl List and its Types

2.5 HRS

07 HRS

04 CHAPTER

OPERATORS

01. Hash

- a. Perl Hash
- b. Hash Operations
- c. Multidimensional Hashes

02. Scalars

- a. Scalars
- b. Comparing Scalars
- c. scalar keyword

03. Strings

- a. Quoted, Interpolated and Escaped Strings
- b. String Operators
- c. String functions (length, lc, uc, index, rindex)

3.5 HRS

5.5 HRS

05
CHAPTER

OOPS

4.5
HRS

08
HRS

01. OOP Concepts

   a. Object Oriented Programming (OOPs) in Perl

   b. Classes in OOP

   c. Objects in OOPs

   d. Methods in OOPs

   e. Constructors and Destructors

   f. Method Overriding in OOPs

   g. Inheritance in OOPs

   h. Polymorphism in OOPs

   i. Encapsulation in OOPs

02. Regular Expressions

   a. Regular Expressions

   b. Operators in Regular Expression

   c. Regex Character Classes

   d. Quantifiers in Regular Expression

03. File Handling

   a. File Handling Introduction

   b. Opening and Reading a File

   c. Writing to a File

   d. Useful File-handling functions
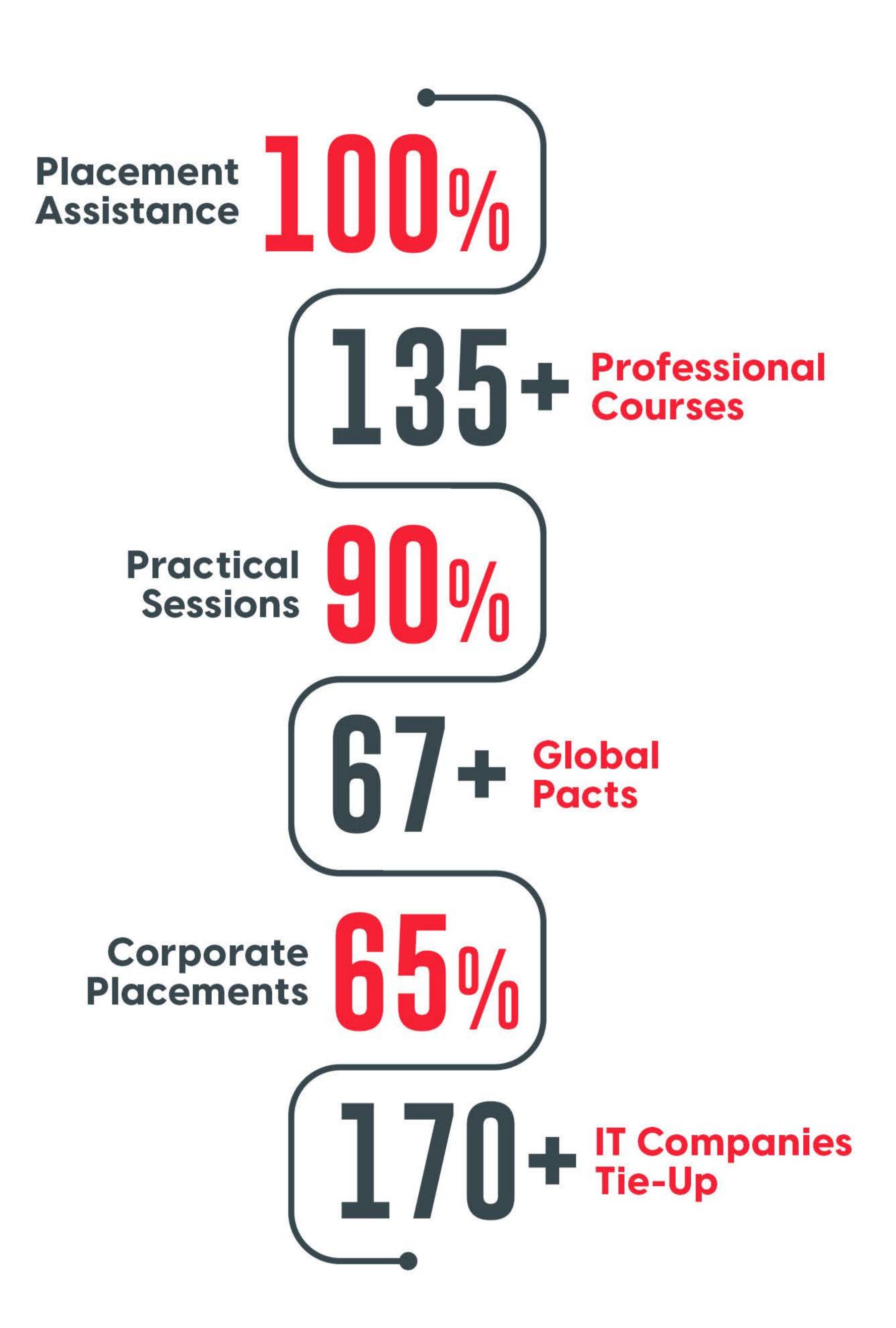
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